

INDEX

- Abel (Prof.), Experiments with Gun-cotton, 534
 Aberdeen University, Prof. Huxley and Classical Studies, 12
 Abiogenesis, Huizinga's Experiments, 85 (Br. A.), 478, 504
 Acclimatisation Society of Paris, 57
 Acoustics, Organ-pipes and Reeds, 26
 Acquired Habits in Plants, 7, 46
 Adams (Dr. A. L.), Maltese Fossil Elephants (Br. A.), 497
 Adelaide, Botanic Garden at, 35
 Aërial Spectres, 227
 Aéronautical Society, 192
 Africa : East Coast Livingstone Expedition, 13, 170 ; Drawings by Bushmen, 6 ; Schweinfurth's Vocabularies, 17 ; West Coast Livingstone Expedition, 170 ; Central Exploration by Dr. Nachtigal, 75, 313 ; Schweinfurth on the Monbutta Tribes, 374 ; S. African Museum, Cape of Good Hope, 352
 "African Sketch Book," by Winwood Reade, 429
 African Travel, Publications of the Geographical Society, 429
 Agassiz (Alex.), Originators of Glacial Theories, Claims of Agassiz and Forbes, 24, 44, 222 ; "Revision of the Echini," 103
 Agassiz (Prof. Louis), Penikese Island, Anderson School of Natural History, 12, 34, 230, 271, 314, 404, 454 ; Lectures on Animal Life, 210 ; Survival of the Fittest, 34
 Agency for British Naturalists, Proposed, 513
 Agricultural Society's Journal, 211
 "Air, its Relations to Clothes, Houses, and Soil," by Dr. Max von Pettenkofer, 483
 Airy (Sir G. B., K.C.B.), Transit of Venus, 129
 Airy (Hubert), Flight of Birds, 362
 Albany (U.S.), Dudley Observatory, 389
 Albert Gold Medal of Soc. of Arts, awarded to M. Chevreul, 110
 Almanacs, Astronomical, 311, 350, 529
 America (See Albany, Baltimore, Bermudas, Buffalo, Cincinnati, Cordoba, Cuba, Indiana, Massachusetts, New York, Paraguay, Philadelphia, Washington)
 American Association for the Advancement of Science, Meeting at Portland, Maine, 354, 389, 472, 392, 512
 American Exploring Expeditions, 169, 231, 331, 385
 American Signal Office, 35, 112, 124
 Ammonites in Margate Cliffs, 155
 Anatomy (See British Association, Sec. D.)
 "Anatomy, Elementary," by St. George Mivart, F.R.S., 221
 Anatomy of Fish, 74
 Anderson (J. F.), Geological Subsidence and Upheaval, 223
 Anderson School of Natural History (See Agassiz, A.)
 Andrews (Jas. B.), Perception in Dogs, 6
 Animals, Instinct in, 6, 65, 67, 78, 282, 284, 302, 322
 Ant, Honey-making, 116, 250
 Anthropological Institute, 19, 58, 79, 135, 195
 Anthropological Society, Berlin, 17 ; Society, Paris, 113
 Antiquity of Man, Discussion at American Association, 392
 "Antiquity of Man," by Sir C. Lyell, Bart., F.R.S., 462
 Ants, Habits of, 244, 303
 Aphides and Bees, 201, 263
 "Aphis," Etymology of, 103
 Appendix Vermiformis and the Evolution Hypothesis, 509
 Appleton (Dr. C. E.), Endowment of Research, 262
 Approach Caused by Velocity, 25
 April Meteors, Observations by W. F. Denning, 6
 Aquarium, Brighton, 25, 171, 191, 229, 231, 313, 372, 473 ; Additions to Collection, 36, 55, 76, 94, 113, 131, 173, 193, 232, 273, 294, 473 ; Official Guide-book, 160 ; Description by W. S. Kent, F.Z.S., 531
 Aquarium, Crystal Palace, 12, 131, 230, 532
 Arabia, Travels in, 395
 Archaeological Association, Meeting at Sheffield, 333, 354
 Archaeological Institute, Meeting at Exeter, 270, 289
 Archaeology, Lec ureship in Scotland, 54
 Archæobiosis, Bastian, Sanderson, and Huizinga's Experiments, 85, 141, 161, 181, 199, 200, 212, 232, 273, 478, 485, 504, 548
 Arctic Exploration, 83, 102, 192, 211, 370, 472, 487, 492, 514 ; Voyage of the *Polaris*, 54, 75, 131, 171, 214, 217, 271, 313, 355, 404, 435, 515, 535, 558
 Argentine Republic, Observatory at Cordoba, 111, 252
 Aristotle, his Knowledge of Zoology and Physiology, 119 ; Translation by Barthélémy Saint-Hilaire, 152
 Arithmetic, Recent Works on, 159, 280
 Arithmometer, The, 325
 Arrowsmith (John), Death of, 54
 Association for the Organisation of Academical Study, 71
 Assyrian Expedition, Mr. G. Smith's, 75, 271, 333, 436
 Assyrian Inscriptions, 112, 115
 Astronomical Almanacs, 311, 350, 529
 Astronomical Society, 174
 "Astronomy, Romance of," by R. K. Miller, 140
 Atmosphere of the Sun, 127, 149
 Atomic Theory, 407
 Atoms and Ether, 322, 361
 "Atoms, World of," by Marc-Antoine Gordin, 81
 Audas (T.), Mode of Deposit of Cuckoos' Eggs, 182
 Aurora, Spectrum of the, 536
 Australia, Geological Map of, 352 ; Exploration in the Interior, 94 ; Science in, 389 (See Adelaide, Melbourne, Victoria)
 Ayton (F.), Bequest of Oriental Calligraphy to Brit. Museum, 232
 Babington (Prof. C. C., F.R.S.), Acquired Habits in Plants, 7
 Backhouse (T. W.), Zodiacal Light, 181
 Bacteria, Dr. Bastian's Experiments, 85, 141, 161, 181, 199, 200, 212, 232, 273, 478, 485, 504, 548 ; Temperature at which they are killed, 273 ; their Development in Organic Infusions, 504
 Baker (Sir Samuel), Safety of his Party, 75, 131 ; Arrival at Khartoum, 192, 209 ; Return to England, 472, 492, 513, 535 ; Illness, 557 ; on Lakes Tanganyika and Albert Nyanza, 313
 Balfour (F. M.), Scientific Endowments, 25
 Ball (R. S., F.R.S.), Dynamometers (Br. A.), 497
 Balkwill (F. H.), A Difficulty for Darwinists, 252, 395
 Balloon, Voyage from America to England, 364, 389, 436, 513
 Balloons, Aërial Spectres seen from, 227
 Balsam Fir of Canada, Structure of its Pith, 53
 Bacter (C.), "Grafting and Budding," 180
 Baltimore, Peabody Institute, 253
 Baptista (P. J.), Journey across Africa, 429
 Barlow (W. H.), Opening Address, Sec. G, Br. A., 426
 Barometer, Proposed New, 6
 Barometers, Discussion on, 19
 Barrett (W. F., F.C.S.), Flammarion's "Atmosphere," by Glaisher, 22 ; Westerly Progress of Cities, 102
 Bashforth (F. B. D.), "The Motion of Projectiles," 593
 Bastian (Prof. A.). Worship of the Heavenly Bodies, 17
 Bastian (Dr. H. C.), (See Archæobiosis, Bacteria)
 Batavian Society of Experimental Philosophy, 557
 Bath Natural History Society, 153
 Beadle (B. A.), Journey of the Pombeiros across Africa, 429
 Beddoe (John, F.R.S.), Opening Address, Sec. D, Br. A., 457
 Bedwell, F. A., Ammonites in Margate Cliffs, 155
 Bees and Aphides, 201, 263
 Beke (Dr. C. T.), African Travels, 429
 Belfast Natural History Society, 503
 Belgian Royal Academy of Science, 130, 275, 375 ; Records of hundredth Anniversary, 4
 Bell (Lowthian), Address to the Iron and Steel Institute, 34
 Bengal, Asiatic Society of, 111
 Bennett (Alfred W.), Fertilisation of Wild Pansy and Ground Ivy, 49, 121, 143 ; Research at the Universities, 433 ; Movements of Glands of Drosera (Br. A.), 479
 Benson (Col. R., F.R.S.), Venomous Caterpillars, 303
 Bentham (G.), Address to the Linnean Soc., 171 ; Co-posite, 352
 Berlin : Anthropological Society, 17, 272 ; Chemical Society, 80, 135, 176, 236, 256, 316 ; Geographical Society, 195
 Bermudas, Geological Peculiarities of, 267
 Berwickshire Naturalists' Club, 141
 Beryls and Emeralds, Researches on, 254, 284
 Bessemer, Mr., and the Iron and Steel Institute, 54
 Bettany (G. T., B.Sc.), Oreadon Remains in Woodwardian Museum, 309, 385

- Biblical Archaeology, Society of, 112, 115
 Bichromate Photographs, 67
 Biela's Comets, 4
 Biological Professorship, Magdalen College, Oxford, 464, 513
 Biology, Examinations of Science and Art Department, 550
 Bird of Paradise, new, 151, 305, 501
 Birds, Classification of, 131
 Birds, Flight of, 86, 324, 362
 "Birds of the Humber District," 100
 Birds of the Malay Archipelago, 54
 Birds of New Zealand, 151
 "Birds, North American," by Elliott Coues, M.D., 21
 Birmingham : Free Libraries Committee, 172 ; Natural History and Microscopical Society, 334, 355, 469 ; Birmingham and Midland Institute, 472, 492
 Boa Constrictor killed in India, 231
 Bologna, Academy of Sciences, 113
 Bonney (Rev. T. G., F.G.S.), Lakes of the North-eastern Alps, 18 ; Science at Cambridge, 83
 Borlae (W.C.), Free-Standing Dolmens, 202, 344
 Botanic Gardens, Adelaide, 35 ; Melbourne, 334
 Botanical Society, 313
 Botanical Society of France, 171
 Botany (See British Association, Sec. D)
 Botany "Grafting and Budding," by C. Baltet, 180
 Brachiopoda, Systematic Position of, 391
 Bradford, British Association Meeting at (See British Association)
 Brady (George S.), Collecting and Preserving Microzoa, 68
 Brady (H. B., F.L.S.), Cinchona Culture, 555
 Brain, Effect of Education in Developing the, 152
 Brain, Localisation of the Cerebral Functions, 468, 477
 "Brain, Convulsions of the," by Dr. A. Ecker, 516
 Brazil Rock Inscriptions, 46
 Bream, Variation of Colour in, 25
 Brewer (W. H.), Gassendi and Natural Selection, 163
 Brighton and Sussex Natural History Society, 334
 Brighton Aquarium (See Aquarium, Brighton)
 British Association for the Advancement of Science :—Meeting at Bradford ; Arrangements, 251, 312, 370, 405 ; Officers, 292 ; Inaugural Address by Prof. A. W. Williamson, F.R.S., 406 ; Soirée, 448 ; Report of Council, 448 ; Attendance, Grants, 473
 Section A (*Mathematical and Physical Science*).—Officers, 292 ; Opening Address by Prof. H. J. S. Smith, 448 ; Report on Instruction in Elementary Geometry, 452 ; Report on Shooting-stars, 474 ; Etherial Friction, by Prof. B. Stewart, 494 ; Cyclones, Rainfall, and Sunspots, by C. Meldrum, 495 ; Effect of Pressure and Temperature on Spectra of Gases, by A. Schuster, 496 ; Dynamometers, by R. S. Ball, 497 ; Introduction of the Decimal Point, by J. W. L. Glaisher, 515
 Section B (*Chemical Science*).—Officers, 292 ; Opening Address by W. H. Russell, F.R.S., 415 ; Report on Gold Assays, 475 ; Process for Purifying Coal Gas, by A. Vernon-Harcourt and F. W. Fison, 475 ; Artificial Magnetite, by J. Spiller, 475 ; Constitution of Silicates, by Prof. Schafarick, 475 ; Sulphide of Methyl and Bromoacetic Acid, by Prof. Crum Brown, 475
 Section C (*Geology*).—Officers, 292 ; Opening Address by John Phillips, 419 ; Fossils in the North-western Highlands, by W. Jolly, 476 ; Earthquakes in Scotland, by Dr. Bryce, 476 ; Report on the Settle Cave, by W. Boyd Dawkins, 476 ; Report of the Boulder Committee, by the Rev. H. W. Crosskey, 476 ; Whin Sill of Northumberland, by W. Topley and G. A. Lebour, 476 ; Maltese Fossil Elephants, by Dr. A. Leith Adams, 497 ; Sub-Wealden Exploration, by H. Willett and W. Topley, 497 ; Rocks of St. David's, by H. Hicks, 497
 Section D (*Biology*).—Officers, 292 ; Opening Address by Prof. Allmann, 421
 Sub-Section D (*Department of Zoology and Botany*).—Report on the Foundation of Foreign Stations, 454. (*Department of Anatomy and Physiology*).—Opening Address by Prof. Rutherford, 455 ; Localisation of the Functions in the Brain, by Prof. Ferrier, 477 ; Huizinga's Experiments on Abiogenesis, by Dr. Burdon-Sanderson, 478 : Electricity of *Dionaea muscipula*, by Dr. Burdon-Sanderson, 479 ; Nature of Cholera, by Dr. Brunton, 479. (*Department of Anthropology*).—Opening Address by John Beddoe, 457 ; Morality of
 British Association (*continued*) :—
 and Religion in Early Civilisation, by E. B. Tylor, 498 ; Glands of Drosera, by A. W. Bennett, 479
 Section E (*Geography*).—Officers, 292
 Section F (*Economic Science and Statistics*).—Officers, 292
 Section G (*Mechanical Science*).—Officers, 292 ; Opening Address by W. H. Barlow, 426
 British Medical Association, 270, 292, 304, 313
 British Museum, Purchase of Mr. Wallace's Birds of the Malay Archipelago, 54 ; Report on Botanical Department, 210 ; Bequest of Oriental Calligraphy, 232 ; Pay of Officers, 217
 Brodie (Sir B.C., Bart., D.C.L.), Marsh Gas and Formic Acid ; Electric Decomposition of Carbonic Oxide, 164 ; Scientific Instruction at Universities, 197, 339 ; Speech on Opening of Owens College, 508
 Brook-Smith (J.), "Arithmetic in Theory and Practice," 159
 Browne (A. H.), Order of Merit for Scientific Men, 223
 Bruhns (Prof. Karl), "Life of Alex. von Humboldt," 238
 Brunton (Dr.), Nature of Cholera (Br. A.), 479
 Bryce (Dr. J., F.G.S.), Earthquakes in Scotland (Br. A.), 476
 Bubble from Abyssinia, 364
 Buck (E. C., B.C.S.), Collective Instinct in Animals, 302
 Buckland (Frank), "Familiar History of British Fishes," 261
 Buddington (Capt. S. O.) and the *Polaris* Expedition, 75, 218, 404, 435
 Buffalo, Society of Natural Sciences, 172, 315
 Buller (Dr. W. L.), Birds of New Zealand, 151
 Barton (Capt. R. F.), Lacerda's Journey to Cazembe, 429
 Bushmen of South Africa, their Drawings and Paintings, 6
 Butterflies, Migration across Isthmus of Panama, 536
 Calcutta, Zoological Garden at, 34
 California : Academy of Sciences, 116 ; Acclimatisation of Fish, 171
 Calligraphy, Oriental, Bequest to British Museum, 232
 Cambrian Archaeological Association, 292
 Cambridge ; Oreodon Remains in Woodwardian Museum, 303, 385 ; Red Lecture 86, 122 ; Report of Science Commission, 337 ; Science at, 12, 54, 93, 110, 151, 512, 557 ; A Voice from, 21, 41, 83 ; Trinity College Natural Science Fellowship and Scholarship, 25, 35 ; Observatory at, 131
 Canarese Snakes, 303
 Cannibalism in Florida, 112 ; in Central Africa, 374
 Carbon Battery Plates, 487, 529
 Carne (Louis de), "Travels in Indo-China," 258
 Carpenter (Dr. W. B., F.R.S.), elected Member of Paris Academy of Sciences, 230
 Carpenter-bees killed by Orioles, 253
 Carruthers (W.), Report on Botanical Department, British Museum, 210
 Carus (Prof. J. Victor), Address on Zoology, 55 ; History of Zoology, 118
 "Castleton, Derbyshire, Handbook to," 172
 Caterpillars, Venomous, 7, 44, 101, 303, 466, 487
 Cave at Settle, W. B. Dawkins, F.R.S., on (Br. A.), 476, 540
 Caves in West and South Coast of Scotland, 293
 "Cazembe, The Lands of," by Dr. D. Lacerda, 429
 Cephalopod, Gigantic, in Japan, 112
 Cerebral Functions, Localisation of the, 467, 477, 516
 Chacornac (Jean), Obituary Notice of, 512
 Challenger, The, Progress of, 53, 333, 535 ; Notes from the Challenger, by Prof. Wyville Thomson, F.R.S., 28, 51, 109, 246, 266, 347, 400
 Challis (Prof. J.), "Mathematical Principles of Physics," 279
 Charterhouse School of Science, 210
 Chauveau (A.), "Comparative Anatomy of Domesticated Animals," 158
 Chemical Science (See British Association, Section B)
 Chemical Society, 39, 79, 135, 194
 Chemical Society, Berlin, 80, 135, 176, 236, 256, 316
 Chemistry : Laboratories of Natural History Museum, Paris, 226 ; Prof. A. W. Williamson's Inaugural Address at British Association, 406 ; Professorship in Engineering College at Jeddah, 12 ; Chemistry, Elements of, by Dr. W. A. Miller, 260 ; "Chemistry for Schools," by C. H. Gill, 160 ; "Chemistry, History of," by F. Hoefer, 320 ; "Chemistry, Practical, Junior Course of," by Prof. Roscoe, 242 ; "Chemistry, the ABC of," by Mrs. R. B. Taylor, 260 ; "Chemistry, the Birth of," by G. F. Rodwell, 56 ; Valentin's "Qualitative Analysis," 199

- Cherry-laurel, Spots on the, 245
 Chester Society of Natural Science, 515
 Chevreul (M.), Albert Gold Medal of Society of Arts awarded to him, 110
 "Childhood of the World," by Edw. Clodd, 99
 China, Meteorology in, 389
 Chisholm (H. W.), International Metric Commission, 403; Weighing and Measuring, and Standards of Weights and Measures, 268, 307, 327, 367, 386, 480, 552
 Chlorine and Hydrogen, Explosion of, 363
 "Chlorophyll Colouring Matters," by Dr. Kraus, 202, 224
 Cholera, Nature of (Br. A.), 479
 Chronometer Tests, 150
 Chronometers, Determining the Rates of, 394
 "Chronos: Mother Earth's Biography," by Dr. Wood, 259
 Cincinnati; Acclimatisation Society, 315; Observatory, 54
 Cinchona Culture, 555
 Cirripedes, Males and Complemental Males of, 431
 City Companies and Technical Education, 293, 314, 514
 Civil Engineers, Institution of, 39, 59, 75, 115
 Clarke (Hyde), Natural History Collections in East India Museum, 5; Rock Inscriptions of Brazil, 46; Egyptian Colony and Language in the Caucasus, 79
 Clerk-Maxwell (Prof. J., F.R.S.), Approach caused by Velocity, 25; Kinetic Theory of Gases, 85; Loschmidt's Experiments on Diffusion, 298; Molecules (Br. A.) 437; Temperature of a Gaseous Column subjected to Gravity, 527; Molecules in Motion, 537
 Clifford (Prof. W. K.), Riemann's Hypotheses of Geometry, 14, 36
 Clifton (Prof. H. B.), Oxford Science Fellowships, 528, 549
 Clodd (Edwd.), "Childhood of the World," 99
 Clouds, Cirrus and Cirronus, 126
 Coal : Coal and Coal Plants (Br. A.), 446; Rev. J. R. Leifchild on, 372; Consumption of, 492; Prizes for Economy in the Use of, 371; Explorations in Leicestershire, 334; in Peru, 192; Coal Gas, Process for Purifying (Br. A.), 475
 Coinage, International, proposed, 229
 Cole (Henry, C. B.), his Retirement, 209; Testimonial to, 357; on the South Kensington Museum, 534
 College of Practical Science endowed by Sir Josiah Mason, 93
 "Collembola, Monograph of the," by Sir John Lubbock, Bart., M.P., 482
 Colmar (Thomas de), The Arithmometer, 325
 Colour : of the Emerald and Beryl, 254, 263, 284; its Variation in Fish, 25, 46, 101; of Lightning, 383
 Colour Blindness, 375
 Colours, Mechanical Combination of, 262
 Comets : Biela's, Tempel's, Brorsen's, and Faye's, 4, 153, 371, 389
 Comets, New, 371
 "Comparative Anatomy, Student's Manual of," by G. H. Morrell, M.A., 4
 "Comparative Anatomy of Domesticated Animals," by A. Chauveau, 158
 Come on the Survival of the Fittest, 283
 Condensation of Air and Steam on Cold Surfaces, 134
 Condensed Milk, 97
 Cook (Capt.), Treatment of his Remains in Hawaii, 211
 Cookery : at South Kensington, 178, 371 Training School for, 293
 Coolie Labour, 58
 Cope (Prof. E. D.), Geology of Wyoming, 19, 20, 34, 93, 116, 156, 390; the Wyandotte Cave, 229
 Copenhagen, Scandinavian Scientific Congress, 333
 Coral dredged by the Challenger, 29
 Coral Sand in Bermudas, in process of Formation, 267
 Cordeaux (John), "Birds of the Humber District," 100
 Cordoba, Argentine Republic, Observatory at, 111, 252
 Corfield (Prof. W. H., M.D.), Typhoid Epidemic in London, 343; Sanitary Progress, 517
 Coronal Atmosphere of the Sun, 127, 149
 Cornu (Alfred), Experiments on Velocity of Light, 184
 Cornu (Maxime), A French Physical Society, 73
 Cornwall Polytechnic Society, 55
 Coste (M.), Obituary Notice of, 436
 Cotton Cultivation in Egypt, 194
 Coues (Elliot, M.D.), "Key to North American Birds," 21
 Cox (Prof. E. T.), his Survey of Indiana, 228
 Cox (Serjt.), "What am I? The Mechanism of Man," 179
 Crabtree, his Correspondence with Horrox, 117, 137
 Cranes at the Zoological Gardens, 383
 Cromlechs and Dolmen-mounds, 202, 344
 Croonian Lecture, by B. W. Richardson, M.D., F.R.S., 132
 Crum-Brown (Prof.), Sulphide of Methyl and Bromacetic Acid (Br. A.), 475
 Crustaceans, Blind, 51, 112
 Crystal Palace : (See Aquarium); School of Engineering, 294
 Cuba Observatory, 294
 Cuckoo, Mode of depositing her Eggs, 182
 Cyclones, Prof. T. B. Maury on, 124, 137; Capt. Maury and J. J. Murphy on, 182; and Sand-storms, 405; Rainfall and Sun-spots (Br. A.), 495
 Daisy, Abnormal, 303
 D'Albertis (Sig. L. M.), New Bird of Paradise, 151, 305; Travels in New Guinea, 501
 Danube, Delta of the, 115
 Darien, Isthmus of, proposed Ship-canal, 172
 Darwin (C., F.R.S.), Habits of Ants, 244; Males and Complemental Males of Cirripedes, 431; Variations of Organs, 505
 Darwin (George), Moving in a Circle, 6; Variations of Organs, 505
 "Darwinian Theory and Migration of Organisms," by Moritz Wagner, 180
 Darwinism, F. H. Balkwill on, 252, 395
 Dawkins (W. B.), Report on the Settle Cave (Br. A.), 476, 549
 Dawson (Dr.), Evolution Theory, 392
 Dawson (George, M.A.), "Manual of Photography," 82
 Dawson (Principal J. W., F.R.S.), A Modern Sternbergia, 53
 Decimal Point in Arithmetic, its Introduction (Br. A.), 515
 Deep-sea Researches, New York ship *Mercury*, 13; in Gulf of St. Lawrence, 112; Forms of Animal Life, 180; Soundings and Thermometers, 266, 529. (See Challenger)
Deidamia leptodactyla, new Crustacean, 51, 485
 De La Rue (Dr. Warren, F.R.S.), on Sun-spots, 234, 292
 Demagnetisation of Needles, 102
 Detonation, Rapidity of, 534
 Deutsch (Emmanuel), Death of, 74
 Development Theory in Germany, 37
 Devon and Exeter Schools of Science, 153
 Dewar (J.), Physiological Action of Light, 204
 Diana, Arctic Voyage of the, 472
 Dick (Capt. St. John), "Flies and Fly Fishing," 220
 Dietz (E.), "Chemical Analysis and Assaying," 180
 Diffusion, Experiments on, 298
 "Dissection, Guide to," by G. H. Morrell, 4
 Diverticulum of Small Intestines, as a Rudimentary Structure (Br. A.), 540
 Dogs, Perception and Instinct in, 6, 65, 67, 284, 302; Dogs reared by Cats, 78
 Dohrn (Dr.), Zoological Station at Naples, 34, 81, 454, 491
 Dollinger (Dr.), President of Bavarian Academy of Science, 75
 Dolmens, W. C. Borlase on, 202; Mounds and Cromlechs, 344
 "Domesticated Animals, Comparative Anatomy of," 158
 Donati (Prof. G. B.), Obituary Notices of, 436, 556
 Dor (Prof.), Colour Blindness, 375
 Dragon-flies of California, 19
 Draper (Dr. J. C.), Evolution of Structure in Seedling Plants, 373
 Drayson (Lieut.-Col. R. A.), "The Last Glacial Epoch," 301
 Dredging in Lake Toronto, 193; on the Devonshire Coast, 469. (See Deep-sea Researches)
 Dresser (H. E., F.Z.S.), "Birds of Europe," 380
 Drosera, Movements of Glands of (Br. A.), 479
 Druitt (Dr.), Testimonial to, 151
 Dublin, Trinity College, 191; Royal College of Science, 230, 436
 Durham University, 514
 Dust Whirlwind, 126
 Dyer (Prof. Threlton), "Aspects of Vegetation," 13; Fungi, 59; Spots on the Cherry-laurel, 245; Biological Fellowship at Magdalene College, 464, 513
 Dynamometers (Br. A.), 497
 Eagle's Eggs, 19
 Earley (Wm.), Habits of Wild Rabbits, 77
 Earthquakes : Dumfries, 5; Rangoon, Peshawur, Lahore, Al-bania, Doncaster, 13; Assam, 95; Attock, 112; Chili, India, Italy, 191; Bagdad, Italy, Buffalo, 210; Italy, 231; Southport, Chile, 253; Jamaica, 294; Valparaiso, 314; Samoan Islands, 325; Nottingham, 370; Scotland (Br. A.), 476
 Eastbourne Natural History Society, 371

- East India Museum, Natural History Collections, 5
 East Kent Natural History Society, 131
 Echinoderms, Recent Works on, 103
 Echo corrected by the Use of Wires, 120
 Echoes, Harmonic, 319, 383, 487
 Ecker (Dr. Alex.), "Convolutions of the Human Brain," 526
 Eclipses, Solar: Dec. 12, 1871, Dr. Janssen on the Coronal Atmosphere, 127, 149; Dr. Oudemans' Photographs, 175; May 26, 1873, 131
 Eclipses and Magnetism, 113
 Eden (C.), Venomous Caterpillars, 466
 Edinburgh: University, 251; Museum of Science and Art, 313; School of Arts, 191; Scottish Meteorological Society, 256; Veterinary College, 473
 Education: in Germany, 536; in Italy, 558 (*See Universities*)
 Edwards (H.), Honey-making Ant of Texas, 250
 Eels, Hermaphroditism of, 113
 Eggers (A.), proposed International Coinage, 229
 Egypt, Cotton Cultivation, 194
 Egyptian Inscriptions, 112
 Electric Decomposition of Carbonic Oxide, 164
 Electrical Illumination, New Method of, 372
 Electrical Measurement, 134
 "Electricity," by R. M. Ferguson, Ph.D., 63
 "Electricity and Magnetism," by Prof. Fleeming Jenkin, F.R.S., 42
 Electricity, Flammarion on, 24
 Elias (Ney), Western Mongolia, 114
 Emeralds and Beryls, Researches on, 254, 284
 Endowment of Research, The, 157, 197, 237, 243, 257, 261, 262, 297, 317, 337, 354, 377, 414, 433
 Engineering School at the Crystal Palace, 294
 Entomological Society, 19, 59, 195, 215
 Entomology: North American Moths, 193; Origin and Metamorphoses of Insects, by Sir J. Lubbock, Bart. M.P., F.R.S., 31, 70, 107, 143, 167, 207
 Entomostreca, collecting and preserving, 68
 Equilibrium of Temperature of Gaseous Column subjected to Gravity, 527
 Ether and Atoms, 322, 361
 Ethereal Friction (Br. A.), 494
 Ethnology: Aleutian Islands and Alaska, 112; Berlin Anthropological Society, 272; "Zeitschrift für Ethnologie," 17
 "European Spiders," by T. Thorell, Ph.D., 378
 European Weeds and Insects in America, 202
 Evolution Theory, 37, 509
 "Evolution, The Philosophy of," by B. T. Lowne, 242
 Evolution of Structure in Seedling Plants, 373
 Exeter, its Place in English History, 289
 "Eye, Physiology of the," by S. H. Salom, 322
 Faraday, Lessons of his Life (*With Portrait*), 397; on Scientific Lecturing, 524
 Farrer (T. H.), Fertilisation of *Lotus corniculatus*, 162
 Fauna of Kiel Bay, 3
 Faye's Comet, 389
 Fayrer (Dr.), Snake Poison, Venomous Caterpillars, 44
 Female Education: Certificates granted in London University, 130; London University, 210; Miss Pogson appointed Assistant Astronomer at Madras, 513; Bequests by John Stuart Mill, 371
 Ferguson (R. M.), "Electricity," 63
 Ferrier (Prof.), Localisation of the Functions in the Brain (Br. A.), 468, 477
 Fertilisation of Flowers by Insects, 49, 59, 121, 143, 161, 162, 187, 202, 223, 244, 433, 541
 Festing (A. M.), Venomous Caterpillars, 101
 Feuchtwanger (Prof.), Existence of Live Mammoths, 393
 "Field and Forest Rambles," by A. Leith-Adams, F.R.S., 320
 Field Clubs, List of, 521
 Finlay (Geo.), Polarisation of Light in the Rainbow, 466
 Fish, W. K. Parker's Researches on their Anatomy, 74; distinguished by their Action, 263; Fish, Variation of Colour in, 23, 46, 101; Fish-Acclimatisation in California, 171
 Fisheries of New England and New York, 55
 "Fishes, British, Familiar History of," by Frank Buckland, 261
 Fishmongers' Company, Grant for Research on the Anatomy of Fish, 74
 Fison (F. W.), Process for Purifying Coal Gas (Br. A.), 475
 Flammarion (Camille), "The Atmosphere," 22
 Fleming (G.), Chauveau's "Comparative Anatomy of Domesticated Animals," 158
 "Flies and Fly-fishing," by Captain St. John Dick, 220
 Flight of Birds, 89, 222, 324, 362
 Flint (A., jun., M.D.), "Physiology of Man," 89
 Flora of Hampshire, 129
 Florence, Memorial to Galileo, 329; International Horticultural Exhibition at, 557
 Flounder, Variation of Colour in the, 101
 Flower (Prof. W. H., F.R.S.), Palaeontology, 192; Pay of Scientific Men, 243
 Flowers, Fertilisation of, by Insects (*See Fertilisation*)
 Flycatcher's Nest, 263
 "Foods," by E. Smith, M.D., F.R.S., 301
 Forbes (W. A.), Fertilisation of Orchids, 121
 Forbes (David, F.R.S.), Mallet-Palmieri's "Vesuvius," 362, 528; his Criticism on Mallet's "Volcanic Theory," 485, 549
 Forbes (Prof. George), Claims of Forbes and Agassiz on Glacial Theories, 44, 64, 84, 222
 Forbes (W. A.), *Grus vipio*, 164
 Foreign Orders of Merit, 481, 549
 Formic Acid and Marsh-gas, 164
 Fossils: Carnivora from Wyoming, 93; Elephants (Br. A.), 497; Plants collected by Dr. Goppert, 271; Skeleton of Guadalupe, 122; in the North-western Highlands (Br. A.), 476
 Foster (Dr. Michael), Elementary Biology, 54
 France: Association for the Advancement of Science, 468; Meeting at Lyons, 270, 349, 370. (*See Paris*)
 Freeman (E. A., D.C.L.), "The Place of Exeter in English History," 289
 Fresenius, Anniversary of his School of Chemistry, 74
 Frick (Dr. J.), "Physikalische Technik," 62
 Frog, the Common, by St. George Mivart, F.R.S., 470, 510
 Fryer (C. E.), Growth of Salmon, 285
 Fuel, Dr. Siemens on (Br. A.), 441
 Fungi, Edible, 100; Parasitic, Collections of, 94
 Fungus Shows at Horticultural Society, 493
 Galileo, Memorial to, 329
 Galton, (J. C.), Dr. Ecker's "Convolutions of the Brain," 526
 Galloupe (C. W.), Presentation of a Yacht to the Anderson School, Penikese Island, 230, 271
 Gamitto (M.), Journey in Africa, 429
 Garrod (A. H.), Origin of Nerve Force, 265, 324, 362, 465; The Sphygmograph, 486
 Gassendi, his Anticipation of Natural Selection, 162
 Gaseous Column subjected to Gravity; its Temperature, 486, 527
 Gases, Kinetic Theory of, 67, 85, 298
 Gases, Clerk-Maxwell's Theory of, 85
 Gastaldi (Sig. B.), Glacier-erosion in Alpine Valleys, 18
 Gaudin (Marc Antoine), "L'Architecture du Monde des Atomes," 81
 Gentry, Fertilisation of Flowers by Insects, 541
 Geographical Society, 114; Medals, 13, 94; Works on African Travel, 429
 Geographical Society, Berlin, 195
 "Geography, Physical Text-book of," by D. Page, LL.D., F.R.S., 358
 Geology: Geological Map of Australia and Tasmania, 352; Geological Society, 18, 58, 95, 154, 174, 196, 215; Geological Society, Glasgow, 39, 79; Geological Subsidence and Uplift, 223; Geological Survey of Indiana, 228; Geologists' Association, 58, 155, 235, 335, 371; "Lyell's Antiquity of Man," 462. (*See Br. A., Sec. C*)
 Geometry, Elementary, Report on Instruction in (Br. A.), 452; The Hypotheses which lie at its Bases, by Bernhard Riemann, 14, 36
 Germ Theory of Putrefaction, 212, 232
 German African Expedition, 313
 Germany, Development Theory in, 37; Education in, 536
 Giles (Ernest), Exploration in Australia, 94
 Gill (C. H.), "Chemistry for Schools," 160
 Gillander (A.), Venomous Caterpillars, 466
 Glacial Drifts of North London, 287
 "Glacial Epoch, The Last," by Lieut.-Colonel Drayson, 301
 Glacial Epoch, Climate of Europe during the, 113
 Glacial Period, The, 283, 467, 506
 Glacial Theories, Originators of (*See Agassiz, Forbes, Tyndall*)

- Glaciation of the Lake District, 154
 Glacier-erosion Theory, Rev. T. G. Bonney, F.G.S., and Sig. B. Gastaldi on, 18
 Gladstone (Dr., F.R.S.), Black Deposits of Metals (Br. A.), 458
 Gladstone (Right Hon. W. E.), Reply to Memorial from Cambridge University, 24, 41; Correspondence with Society of Arts on National Museums, 543
 Glaisher (James, F.R.S.), Flammarion's "Atmosphere," 22
 Glaisher (J. W. L.), Introduction of the Decimal Point (Br. A.), 515
 Glasgow : University, New Professor of Engineering, 49; Geological Society, 39, 79
 Gold found in Quartz in Dumfriesshire, 371
 Göppert (Dr.), Fossil Plants, 271
 Gore (G.), Scientific Research, 354
 Göttingen, Royal Society of Sciences, 336, 520
 Government Aid to Science (*See State Aid to Science*)
 "Grafting and Budding," by C. Burret, 180
 Gray (Dr. J. E., F.R.S.), The Huemul, 263, 302; Internal Nose of Peccaries and Pigs, 488
 Greenwood (Col. Geo.), Lakes with Two Outfalls, 382
 Grey-Egerton (Sir P. de M., Bart., F.R.S.), Miners' Rules in the 17th Century, 47
 Grote (Aug. R.), Deidamia, 485
 Ground Ivy, with undeveloped Stamens, 121, 143, 161
Grus vipsio, 164, 383
 Gubernatis (Prof. Angelo de), "Zoological Mythology," 43
 Guildford Science and Art Classes, 514
 Gulf Stream, its Influence on Storms, 147
 Gulf Weed collected by the *Challenger*, 348
 Gulliver (Dr. G.), Extirpation by Collectors of Rare Plants and Animals, 73; Care of Monkeys for their Dead, 103, 163
 Gun-cotton, Rapidity of Detonation, 534
 Guthrie (Principal F., LL.B.), Kinetic Theory of Gases, 67; Equilibrium of Temperature of a Gaseous Column, 486, 527; Flight of Birds, 86, 324, 362
 Hague (J. D.), Habits of Ants, 244
 Hail, Different Forms of, 22, 23
 Hailstorm at Highfield House Observatory, 121
 Hall (Capt.) Arctic Exploration and the *Polaris* Expedition, 55, 76, 83, 102, 131, 171, 218, 271, 313, 535
 Hall (Maxwell), Zodiacal Light, 7, 181; Temperature and Pressure, 200
 Halomitra, H. H. Higgins on, 245
 Hancock (Albany), Death of, 557
 Hansteen (Christopher), Obituary Notice of, 349
 Harcourt (A. V.), Process for Purifying Coal Gas (Br. A.), 475
 Harmonic Echoes, 319, 383, 487
 Hart (W. E.), Fertilisation of Flowers, 121, 162, 244
 Hartley (Sir C. A.), Delta of the Danube, 115
 Hartley (W. N.), Dr. Bastian's Experiments, 200
 Hartnup (J.), Determining the Rates of Chronometers, 394
 Hastings (Chas. H.), Spectra of the Limb and Centre of the Sun, 77
 Hayden's Exploring Expedition, 170, 193, 271, 272, 331
 Hayward (Prof. B.), Lakes with Two Outfalls, 383
 Heat, Rede Lecture on Thermo-Electricity, 86, 122
 Heat Conducted through Rocks (Br. A.), 540
 Hegelian Calculus, The, 26
 Hegel's Philosophy, 241, 382
 Heidelberg University, 389
 Helmholtz (Prof.), Prussian Order Conferred on, 370
 Helvetic Society of Natural Sciences, 561
 Henrici (Prof.), Mathematical Teaching, 492
 Hensley (L.), "Figures Made Easy," 159; "Scholar's Arithmetic," 280
 Herschel (A. S., F.R.A.S.), Conducting Power of Rocks for Heat (Br. A.), 549
 Herschel (Capt. J.), Flight of Birds, 324, 362
 Hess (A., M.D.), Dr. Pettenkofer on Air, 483
 Hicks (H., F.G.S.), Rocks of St. David's (Br. A.), 497
 Higgins (H. H.), Halomitra, 245
 Hincks (Rev. Thos.), Dr. Sars' Researches on Animal Life in Deep Sea, 189
 Hobart Town Observatory, 272
 Hoefer (Ferdinand), "History of Physics and Chemistry," 320
 Holland (Sir H., Bart., M.D., F.R.S.), Death of, 557
 Honey-making Ant, 116, 250
 Hooker (Dr. J. D., C.B., F.R.S.), Report on Kew Gardens for 1872, 130; Phanerogamic Vegetation, 487
 Horns of Animals, Proposed Collection of, 151
 Horrox (Jeremiah), 117, 137
 Horses, Perception and Instinct in, 65, 78, 322
 Horticultural Society, 39, 59, 95, 155, 255, 315, 480, 493, 541
 Houzeau (J. C.), Mind in the Lower Animals, 91
 Howitt (A. W.), Sense of Direction in Animals, 322
 Huemul, The, Dr. J. E. Gray on, 263, 302
 Huizinga (Prof. D.), Experiments on Abiogenesis, 85, (Br. A.) 478, 504
 "Humber District, Birds of the," 100
 "Humboldt (Alex. von), Life of," 238
 Hummel (A.), "Das Leben der Erde," 44
 Hummel (A. and Dr. Otto Yule), "Physikalische und Chemische Unterhaltungen," 44
 Huni (Prof. J. Sterry), Origin of Volcanic Products, 66; Geology of New Brunswick, 393
 Hutton (Capt. F. W.), Echinodermata of New Zealand, 104
 Huxley (Prof. T. H.), Reform in Aberdeen University, 12; Principal Forbes, Prof. Tyndall and Glacier Theories, 64, 84; Intellect of Porpoises, 163
 Hyalonema, Japanese Glass-rope Sponge, 393
 Hydrogen and Chlorine, Explosion of, 363
 Iceland, Volcanoes in, 404
 India, Science in, 231, 405, 513. (*See Bengal, Calcutta*)
 Indiana, Geological Survey of, 228
 "Indo-China, Travels in," by Louis de Carné, 258
 Innsbrück, Society of, 111
 Insects, Fertilisation of Flowers by (*See Fertilisation*)
 Insects, Origin and Metamorphoses of, by Sir J. Lubbock, Bart. F.R.S., 31, 70, 107, 143, 167, 207
 Instinct : Moving in a Circle, 6, 27; in the Lower Animals, 6, 65, 67, 77, 282, 284, 322; in Plants, 164
 Intellect of Porpoises, 163, 229
 International Coinage, proposed, 229
 International Exhibition, 39, 110, 293; 1874, 334
 International Metric Commission, 403
 Iowa, Scientific Journal, 194
 Ireland (*See Belfast, Dublin*)
 Iron and Steel Institute, 34, 54; Meeting at Liège, 333, 354
 Iron, Calcium and Titanium, Coincidence of their Spectrum Lines, 46
 Iron Girder moved by Power of Expansion under Heat, 232
 Italy : Association for the Advancement of Science, 472; Botanical Journal, 17; Education in, 558; Science in, 113. (*See Eologna, Florence, Lombardy, Naples, Rome, Turin*)
 Jacamar shot near Gainsborough, 100, 120
 Jagor (F.), "Philippine Islands," 138
 Janssen (Dr.), Coronal Atmosphere of the Sun, 127, 149
 Japan : Education, 193; Volcanoes, 196; Winds, 111
 Jeddo, Engineering College, 12
 Jeffreys (J. Gwyn, F.R.S.), "Fauna der Kieler Bucht," by Mayer and Möbius, 3
 Jenkins (Prof. Fleeming, F.R.S.), "Electricity and Magnetism," 42
 Jenkins (B. G.), Westerly Progress of Cities, 182
 Jeovons (Prof. W. S.), Lakes with Two Outfalls, 304, 383
 Jones (E. D.), November Meteors, 1872, 385
 Jose (Amaro), Journey across Africa, 429
 Josiah Mason College, Erdington, near Birmingham, 93
 Journal of Botany, 210, 499
 Joy (Prof. C. A.), on Scientific Research, 13
 Jukes (the late J. B., F.R.S.), Order of Merit for Science, 223
 Jute Paper, 192
 Kangaroos, Fossil Gigantic, 231
 Kaup (Prof. D.), Death of, 515, 535
 Keightley School of Science and Art, 472
 Kensington Entomological Society, 7
 Kent (W. S.), Variation of Colour in Fish, 25; "Guide to the Brighton Aquarium," 160; Intellect of Porpoises, 229; Retirement from the Brighton Aquarium, 251; Action of Fish, 263; Description of the Brighton Aquarium, 191
 Kerguelen Cabbage, its Acclimatisation, 67
 Kerner (Prof. A.), contributions to Botany, 111
 Kerr (Prof. W. C.), Prehistoric Mica Mines, North Carolina, 14
 Kew Gardens, Report for 1872, 130; Plants in flower, 313; bequest of Herbaria by J. Stuart Mill to, 557
 Kiel Bay, Fauna of, 3

- Kinetic Theory of Gases, 67, 85, 298
 King's College, London, 230
 Kingsley (Rev. Canon), Jacamar shot near Gainsborough, 120
 Kirkwood (Prof. Daniel), Biela's Comets, 4
 Kitchener (F. E.), Fertilisation of the Pansy and Ground Ivy, 143
 Koninck (Dr. L. L. de), "Chemical Analysis and Assaying," 180
 Kraus (Dr. Gregor), "Chlorophyll Colouring-Matters," 202
 Lacerda (Dr. De), "The Lands of Cazembe," 429
 Lacustrine Dwellings near Leipsic, 405
 Ladquin (A.), Lighting by Electricity, 372
 Lakes of the North-eastern Alps, 18
 Lakes with Two Outfalls, 304, 382
 Lancelet, from Naples, in the Crystal Palace Aquarium, 12
 Landship at Lima, 372
 Langdon (R.), Prominences seen with a Common Telescope, 262
 Lankester (E., M.D.), Condensed Milk, 97; Cookery at South Kensington, 178; "Half-hours with the Microscope," 503
 Lankester (E. Ray), Development of Bacteria, 504
 Lanyon Quoit, Cornwall, 346
 Larvae of Membracis supplying Milk to Bees, 201
 Lassell (J. and C.), "Life of Alex. von Humboldt," 238
 Laughton (J. K.), Proposed New Barometer, 6
 Lebour (G. A.), Whin Sill of Northumberland (Br. A.), 476
 Lecturing, Scientific, Faraday on, 524
 Leeds, Naturalists' Field Club, 36, 110, 335, 493, 514; Philosophical and Literary Society, 153
 Leibchild (Rev. J. R.), Papers on Coal, 372
 Leipzig, Meteorological Conference at, 114, 341
 Leith-Adams (A., F.R.S.), "Field and Forest Rambles," 320
 Lesseps (Ferdinand de), elected Member of the French Academy of Sciences, 270
 Leverrier (M.), appointed Director of French National Observatory, 152
 Levi (Dr. Leone), Resources of Paraguay, 130
 Liebig (Justus), Obituary Notice of, 27; proposed Monument to, 53, 74
 Liege, Meeting of the Iron and Steel Institute at, 333, 354
 Light, its Action on the Electrical Resistance of Selenium, 134; Physiological Action of, 204; Velocity of, M. Cornu's Experiments, 184
 Lightning, Colour of, 383
 Lightning Conductors at St. Paul's Cathedral, 294
 "Light Science for Leisure Hours," by R. A. Proctor, 243
 Lima, Great Landslips, 372
 Lindsay (Dr. J. Lauder), Mind in the Lower Animals, 91
 Linnean Society, 175, 252, 499; President's Address, 171
 Lister (Prof. Jos., F.R.S.) Germ Theory of Putrefaction, 212, 232
 Liverpool Naturalists' Field Club, 272
 Livingstone (Dr.), Expeditions to aid him, 13, 170, 313; Statue at Edinburgh, 35; Pension, 170; supposed News of, 492
 Lloyd (W. A.), Crystal Palace Aquarium, 532
 Lobsters, Young Brood in Brighton Aquarium, 231
 Local Scientific Societies, 523
 Lockwood (Prof. Dr. S.), Hyalonema, 393
 Lockyer (J. Norman, F.R.S.), The Spectroscope and its Applications, 10, 87, 104; Researches in Spectrum Analysis, 153, 156
 Loewy (B., F.R.A.S.), Sun-spots, 234
 Lombardy, Royal Institution, 315
 London University, 192, 210
 Loschmidt (Prof.), Experiments on Diffusion, 298
 Lovén (Prof.), on Echinoderms, 104
 Lowe (E. J., F.R.S.), Hailstorm at Highfield Observatory, 121
 Lowne (B. T.), "Philosophy of Evolution," 242
 Lubbock (Sir J., Bart, M.P.), Ancestry of Insects, 249; "Monograph of the Collembola and Thysanura," 482; Preservation of Public Monuments, 333; Silbury Hill bought by him, 191; Insects (See Origin and Metamorphoses of)
 Lucae (Dr. C. G.), Anatomy of Seal and Otter, 222
 Lump-fish, Variation of Colour in, 25
 Lydekker (R.), Origin of Nerve Force, 465
 Lyell (Sir C.), "Antiquity of Man," 462
 Lyons, Meeting of the French Association for the Advancement of Science, 270, 349, 370, 468
 Maack (Dr. G. A.), Death of, 514
 McLachlan (Robt.), Venomous Caterpillars, 101
 McLeod (H., F.G.S.), Dr. Miller's Elements of Chemistry, 260
 Macfie (Sir R., C.B.), Death of, 557
 McKendrick (Dr.), Physiological Action of Light, 204
 McKichan (Dugald, M.A.), Electrical Measurement, 134
 Madrid, proposed Exhibition of Industry, 314
 Magnetic Survey, Middle States of America, 112
 Magnetism and Eclipses, 113
 "Magnetism and Electricity," by Prof. Fleeming Jenkin, F.R.S., 42
 Magnetism; Demagnetisation of Needles, 102
 Magnetite, Artificial (Br. A.), 475
 Watkins (G. H.), "Manual of Metallurgy," 302
 Mallet (R., F.R.S.), "Chemical Analysis and Assaying," by De Koninck and Dietz, 180; Translation of Palmieri's "Vesuvius," 362, 528; D. Forbes' Criticism of his Volcanic Theory, 485, 528, 549
 Maltese Fossil Elephants (Br. A.), 497
 Maltzan (Baron von), Travels in Arabia, 395
 Mammoth, Contemporary Representation of the, 58
 Mammoth, Living in Siberia, 393
 Man, Antiquity of, 392, 462
 "Man in Early Times," by Edw. Clodd, F.R.A.S., 99
 "Man, Physiology of," by A. Flint, jun., M.D., 98
 Manchester: "Science Lectures for the People," 558; Literary and Philosophical Society, 19; Owens College, 75, 506, 538
 Manila described by F. Jagor, 139
 Marine Animal, New, from Washington, 487
 Markham (Capt.), Plants from Smith's Sound, 487
 Markham (Clements, R., C.B.), Arctic Exploration, 83
 Marsh (Prof.), Mammals from the Rocky Mountains, 76
 Marsh-gas and Formic Acid, 164
 Mason (Sir Josiah), his Scientific College, near Birmingham, 93
 Massachusetts, State Board of Health, 211
 Mathematical Science (See British Association, Sec. A)
 Mathematical Society, 58, 154
 Mathematical Teaching, Prof. Henrici on, 492
 Mauertius, his Anticipation of Natural Selection, 163
 Mauritius, Society of Arts and Sciences, 211; Observatory, 446
 Maury (Commodore), Monument to, 35
 Maury (Prof. T. B.), Law of Storms Developed, 124, 147, 164
 Mayer (H. A. and R. Möbius), "Fauna der Kieler Bucht," 3
 Mayer (John), J. Thomson, C. E., LL.D., Professor of Engineering, 49
 Mayne (Capt. Ashton), Sidereal Dial, 366
 Measuring and Standards of Measure, 268, 307, 327, 367, 386, 489, 552
 Mechanical Combination of Colours, 262
 Mechanical Science (See British Association, Sec. G)
 Medals awarded by French Societies, 55
 Medical Studies, 461
 Melbourne, Botanical Garden, 334; Microscopical Society, 558
 Meldrum (C.), Periodicity of Cyclones, Rainfall, and Sun-spots, 194, 547, (Br. A.) 495
 Melsheimer (F. E., M.D.), Obituary Notice of, 236
 Mental Science, Journal of, 233
 Merrill (G. C.), Motion in a Circle, 77
 "Metallurgy, Manual of," by G. H. Makins, F.C.S., 302
 Metamorphoses of Insects (See Insects)
 Meteor at Tiverton, 487
 Meteors, November, 1872, 385
 Meteorology: Flammarion's "Atmosphere" by Glaisher, 22; Law of Storms Developed, 124, 147; in Havanna, 294; in Japan, 111; proposed Stations in China, 389; Registers of H.M.S., *Erebus* and *Terror*, 514; Symons' "British Rainfall for 1872," 231; United States' Signal Office, 35, 112, 124; Congress at Leipsic, 341; at Vienna, 468; Meteorological Influence of Trap Rocks, 181; Meteorological Soc., 19, 114, 175
 Metric Commission, International, 403; Casting the New Metre, 75
 Metric System of Weights and Measures, 386
 Meyer (Dr. A. B.), his Expedition to New Guinea, 535
 Mica Mines, Prehistoric, in North Carolina, 14
 Michez (Dr.), Eclipses and Magnetism, 113
 "Microscope, Half Hours with the," by E. Lankester, M.D., 503
 Microscope, New Slide, 79
 Microscopes, Power of Objectives, 102
 Microscopical Journal, 79, 153, 234, 296, 499, 519
 Microscopical Society, 59, 135, 500
 Microscopical Society, Birmingham, 469

- Microzoa, Method of Collecting and Preserving, 68
 Milk, Condensed, 97
 Mill (John Stuart), Obituary Notices, 47, 53; Memorial to, 210; Bequests for Female Education, 371
 Miller (R. Kalley, M.A.), "Romance of Astronomy," 140
 Miller (S. H.), Mirage in the Fens, 182
 Miller (W. A., M.D.), "Elements of Chemistry," 260
 Miller-Casella Thermometers broken in Deep-sea Soundings, 109
 "Mind, The Human," by J. G. Murphy, LL D., 281
 Mind in the Lower Animals, Dr. J. Lauder Lindsay on, 91
 Miners' Association of Cornwall and Devon, Prize, 14
 Miners' Rules in the 17th Century, 47
 Mirage in the Fens, 182
 Mivart (St. George, F.R.S.), "Elementary Anatomy," 221; The Common Frog, 470, 510
 Möbius (K., and H. A. Mayer), "Fauna der Kieler Bucht," 3
 Molecules, Prof. Clerk-Maxwell on, 437
 Molecular Evolution, 473
 Molecules in Motion, 537
 Mollusca of Kiel Bay, 3
 Monckhoven's "Photography," 482
 Mongolia, Western, Ney Elias's Journey through, 114
 Monkeys, their Tears and Care for the Dead, 103, 163
 Montiero (M.), Journey in Africa, 429
 Morality and Religion in Early Civilisation (Br. A.), 498
 Morrell (G. H., M.A.), "Students' Manual of Comparative Anatomy and Dissection," 4
 Morse (Prof. E. S.) Brachiopoda, 391; Variations in Wave-lengths, 393; Mantone Skull, Evolution Theory, 392
 Moscow, Société Impériale des Naturalistes, 562
 Motion in a Circle, 6, 27, 77
 "Motion of Projectiles" by F. Bashforth, B.D., 503
 Mott (A. J.), Atoms and Ether, 322
 Müller (Dr. Hermann), "Fertilisation of Flowers by Insects," 161, 187, 205, 223
 Munich, Royal Academy of Sciences, 118
 Muscular Irritability after Systemic Death, 132
 Musical Stones, 46
 Murphy (J. G., LL.D.), "The Human Mind," 281
 Murphy (J. J., F.G.S.), Winters and Summers, Cyclones, 182; European Weeds and Insects in America, 202; Abnormal Ox-eye Daisy, 303; Harmonic Echoes, 487
 Murray (A.), Venomous Caterpillars, 44
 Myers (A. T.), Fertilisation of the Pansy, 202
 "Mythology, Zoological," by Prof. De Gubneratis, 43
 Nachtigal (Dr.), Exploration in Central Africa, 75
 Napier (Commander R. H.), Ingenuity in a Pigeon, 324
 Naples, Zoological Station at, 34, 81, 454, 491
 National Museums: Correspondence of Society of Arts and the Premier, 543
 Natural History Collections in the East India Museum, 5
 Natural History Museum, South Kensington, 129
 Natural History School at Penikese Island (*See* Agassiz, Alex.)
 "Natural Philosophy, Notes on," by G. F. Rodwell, F.C.S., 100
 Natural Selection anticipated by Maupertius and Gassendi, 162
 Nautical Almanac, 529
 Naval Architecture, Instruction in, 76
 Navigation, Coefficient of Safety in, 394
 Negretti and Zambra (H.), Deep-sea Soundings and Thermometers, 529
 Nelaton (Dr.), Death of, 436
 Nerve Force, Origin of, 265, 324, 362, 465
 Nests of Fish, 25
 Neumayer (Dr.), Measurement of Deep-sea Temperatures, 195
 New Brunswick, Geology of, 393
 Newcastle-upon-Tyne, College of Physical Science, 230, 272, 371, 514
 Newcomb (Prof.), Tables of the Motions of Uranus, 54
 New Guinea, Exploration in, 75; D'Albertis' Excursion to, 501
 New Planets, 192, 371, 493
 Newton (Prof. Alfred), Notornis of Lord Howe's Island, 350
 New York: Menagerie in Central Park, 355; State Cabinet of Natural History, 355
 New York Tribune, Cheap Reports of Scientific Lectures, 232
 New Zealand, Echinodermata of, 104; Birds of, 151
 Nicols (Arthur), Abnormal Colouration in Fish, 46
 Nipher (Frank E.), The Glacial Period, 467
 Nitrogen, Spectrum of, 161
 Noble (Capt. A.), Brazilian Order conferred on, 292
 Norfolk and Norwich Naturalists' Society, 100
 North London, Glacial Drifts of, 287
 No'ornis of Lord Howe's Island, 350
 Nottingham, Science Lectures at, 536
 Norwich, Social Science Congress, 472
 November Meteors, Brazil, 385
 Obermeier (Dr. Oto), Obituary Notice of, 371
 Observatories: Washington, 35, 253; Cincinnati, 54; Cordoba (Argentine Republic), 111, 252; Paris, 110; Highfield House, 121; Campidoglio, Cambridge, 131; Columbia (U.S.), 193; St. Petersburg, 273; Cuba, 294; Vienna, Marseilles, 371; Albany (U.S.), 389; Mauritius, 446; J. G. Barclay's, 473; Sydney, 547
 "Ocean Highways," 39, 76, 541
 Octopus, Young, bred in Brighton Aquarium, 171, 192, 313
 Oldham School of Science, 314
 Oliver (Capt. S. P., R.A.), Cromlechs and Dolmen Mounds, 344
 Orchids, Fertilisation of, 121
 Order of Intellectual Merit, proposed by Earl Stanhope, 177; the late J. B. Jukes on, 223; Foreign Orders, 481, 549
 Oreadon Remains in Woodwardian Museum, 309, 385
 Organ Pipes and Reeds, 26, 45
 Oriental Calligraphy, Bequest to British Museum, 232
 Oriental Research as a Means of Education, 538, 559
 Orme (Temple), Hensley's "Scholar's Arithmetic," 280
 Ormerod (G., F.R.S.), Death of, 514
 Ornithology (*See* Birds)
 Otter and Seal, Anatomy of the, by Dr. C. G. Luce, 222
 Oudemans (Dr.), Photographs of Solar Eclipse of 1871, 175
 Owen (Prof. R., F.R.S.), appointed C. B., 74
 Owens College, Manchester, Opening of the New Building, 75, 506; Address by Prof. Roscoe, 538
 Oxford: Biological Fellowship at Magdalen College, 464, 513; Natural Science Fellowships and Scholarships, 535, 506, 528, 549; Scientific Education at, 71; Report of Science Commission on, 337; Science at, 21, 55, 130, 170, 171, 404, 436, 464
 Ozone Generator, Improved, 146
 Packard (A. S.), Ancestry of Insects, 249
 Page (D., J.L.D.), "Text Book of Physical Geography," 458
 Paladilhe (Dr.), Instinct and Perception in Animals, 284
 Palmieri's "Incendio Vesuviano," 362, 549
 Pansy, Wild, Fertilisation of, 49, 121, 143, 202
 Paper manufactured from Jute, 192
 Paraguay, Commission on the Resources of, 130
 Parasites of the House Fly, 263
 Paris: Academy of Sciences, 20, 40, 60, 80, 96, 116, 136, 156, 176, 196, 209, 216, 236, 256, 270, 276, 296, 316, 336, 376, 396, 405, 480, 500, 520, 542, 562; Acclimatisation Society, 57, 194, 234, 275; Anthropological Society, 113; Bureau des Longitudes, 110; Geographical Society, 214; Gold Medals awarded by Societies, 55; Jardin des Plantes, 557; Laboratories of Natural History Museum, 226; Physical Society, 73
 Parker (W. K., F.R.S.), Researches on the Anatomy of Fish, 74
 Peccary, Internal Nose of, 488
 Penikese Island (*See* Agassiz, Alex.)
 Perception in the Lower Animals, 6, 65, 67, 77, 282, 284, 302, 322
 Periodicity of Rainfall, 194, 245, 547
 Perry (John), Oxford Science Fellowships, 506, 528, 549
 Perthshire Society of Natural Science, 294
 Peterman (Dr.), on the *Polaris* Expedition, 271, 313
 Pettenkofer (Dr. Max von), "Air; its Relations to Clothes, Houses, and Soil," 483
 Phanerogamic Vegetation, Northern Limit of, 487
 Pharmaceutical Society, 404
 Pheasants, Suppression of Scent in, 48
 Philadelphia: Academy of Natural Sciences, 19, 59, 115, 156, 276, 500, 520, 541; Centennial Exhibition 1876, 355; Philosophical Society, 216; Zoological Garden, 55
 Phillips (Prof. John, F.R.S.), Opening Address, Sec. C, Br. A., 419; Wealden Boring, 487
 Phosphorescence in Wood, 46, 103

- Photography : Photographs, Bichromate, 67 ; Photographs of Solar Eclipse of 1871, 175 ; Photographs of Stars, by Mr. Sellak, 252 ; "Photographie, Traité Général de," by Dr. Monckhofen, 482 ; Photography, Celestial, Improved Telescope Tube, 284 ; "Photography, A Manual of," by Geo. Dawson, M.A., 82
- Physical Science (*See* British Association, Sec. A)
- "Physics, History of," by F. Hoefer, 320
- "Physics, Mathematical Principles of," by Prof. Rev. J. Challis, F.R.S., 279
- "Physikalische Technik," by Dr. J. Frick, 62
- Physiology (*See* British Association, Sec. D)
- "Physiology of Man," by A. Flint jun., M.D., 98
- "Physiology of the Eye," by S. H. Salom, 322
- Peirce (Prof. B.), Rotation of the Planets, 392
- Pigeon, Ingenuity in a, 324
- Pigs, Internal Nose of, 488
- Placentation of the Sloth, 96
- Plaice, Variation of Colour in, 25, 46, 101
- Planets, New, 192, 371, 493
- Planets, Rotation of the, 392
- Plants, Acquired Habits in, 7, 46
- Playfair (Dr. Lyon), Scotch and English Universities, 41
- Pogson (Miss), Appointed Assistant Astronomer at Madras, 513
- Poison and Venom, Venomous Caterpillars, 7, 44, 101
- Polaris Exploring Ship (*See* Arctic Exploration)
- Polarisation of Light in the Rainbow, 466
- Pollen, Natural Protection of, 111
- "Pollenize" or "Pollenate," Use of the Word, 121, 143, 244
- Polynesia, New Port and Harbour Discovered, 314
- Pombeiros, The, their Journey Across Africa, 429
- Population, Statistics of Increase, 172
- Porpoises, Intellect of, 163, 229 ; at Brighton Aquarium, 229, 405
- Portland (*See* American Association)
- Potato Disease, New, 12
- Potential Energy, 35
- Prece (W. H.), Demagnetisation of Needles, 102
- Prehistoric Art, 6 ; Man in America, 14
- Pringle (E. H.), Relics of the Pyramids, 263 ; Canarese Snakes, 303
- Pritchard (H. Baden), Bichromate Photographs, 67
- Proboscis of Moths of Extraordinary Length, 223
- Procter (H. R.), Origin of Nerve Force, 324, 362
- Proctor (R. A., B.A.), "Light Science for Leisure Hours," 243
- "Projectiles, the Motion of," by F. Bashforth, B.D., 503
- Prominences, Solar, seen with a Common Telescope, 262
- Psychology, Popular, by Serjt. E. W. Cox, 179
- Pulse, the, and the Sphygmograph, 330, 464, 486
- Putrefaction, Germ Theory of, 212, 232
- Pye-Smith (Dr. P. H.), "History of Zoology," by Prof. J. Victor Carus, 118
- Pyramids, Relics of the, 263
- Quatrefages (M. de), Address to French Association, 349
- Queckett Microscopical Club, 275
- Rabbits, Wild, Habits of, 77
- Rae (John), Arctic Exploration, 102
- Rainbow, Curious, 224 ; Reflected, 361, 432, 466 ; Polarisation of Light in the, 466
- Rainfall, Cyclone and Sun-spot Periodicity, 194, 245, 547 (Br. A.), 495
- Rainfall, Symons' "British Rainfall for 1872," 231
- Rawson (Governor), Periodicity of Rainfall, 245
- Rayleigh (Lord, F.R.S.), Harmonic Echoes, 319, 528
- Ray Society : Lubbock's "Monograph of the Collembola and Thysanura," 482 ; Report of Council, 488
- Reade (Winwood), "African Sketch Book," 429
- Rede Lecture, 86, 122
- Reflected Rainbows, 361, 432, 466
- Reis (Dr. Paul), Handbook of Physics, 120, 381
- Research, Endowment of (*See* Endowment of Research)
- Research, Original, as a Means of Education, 538, 559
- Respighi (Prof. L.), Eclipse of May 26, 1873, 131 ; his Method of Spectroscopic Observation, 162
- Richardson (B. W., M.D., F.R.S.), Muscular Irritability after Systemic Death, 132
- Riemann (Bernhard), The Hypotheses which lie at the Bases of Geometry, 14, 36
- Riga, Society of Naturalists, 356, 520
- Rigi Railway, 39
- Right and Left, 396
- Rock Inscriptions of Brazil, 46
- Rocks, their Power of conducting Heat (Br. A.), 540
- Rocky Mountains, Fossil Mammalia, 76
- Rodwell (G. F., F.C.S.), Space of Four Dimensions, 8 ; "The Birth of Chemistry," 56 ; "Notes on Natural Philosophy," 100 ; Hoefer's "History of Physics and Chemistry," 320 ; Memorial to Galileo at Florence, 329
- Rogers (Prof. W. A.), Safety in Navigation, 394
- Röhrs (J. H.), The Glacial Period, 283, 506
- Romanes (Geo. J.), Permanent Variation of Colour in Fish, 101 ; Curious Rainbow, 224 ; Instinct in Animals, 282
- Rome, Royal Academy, 562
- Ronalds (Sir Francis), Obituary Notice of, 313
- Roscoe (Prof. H. E., F.R.S.), Obituary Notice of Liebig, 27 ; "Junior Course of Practical Chemistry," 242 ; Original Research as a Means of Education, 538, 559
- Rose (Gustav), Obituary Notice of, 251, 277
- Rotation of the Planets, 392
- Royal Commission on Science, 197, 317, 414
- Royal Institution, 55
- Royal Society, 18, 34, 96, 134, 151, 153, 173, 194, 214, 234 ; Croonian Lecture, 132 ; Soirée, 12
- Rudimentary Structures, C. Darwin, F.R.S., on, 431
- Rugby School Natural History Society, 160
- Russell (H. C.), Meteorological Phenomena, 547
- Russell (Prof. J. L.), Death of, 514
- Russell (W. J., F.R.S.), Opening Address, Sec. B, Br. A., 417
- Russia, Expeditions for observing the Transit of Venus, 35, 271
- Russian Exploration of New Guinea, 75
- Rutherford (Prof.), Respiration of the Rabbit, 210 ; Opening Address, Sec. D, Br. A., 454
- St. Andrew's University, 272
- St. David's Rocks (Br. A.), 497
- St. Lawrence, Gulf of, Deep Soundings and Dredging, 112
- St. Paul's Cathedral, Lightning Conductors at, 294
- St. Petersburg Observatory, 273
- Sale (Lieut.), Action of Light on the Electrical Resistance of Selenium, 134
- Salmon, Growth of, 285
- Salom (S. H.), "Physiology of the Eye," 322
- Samoan Islands, Earthquakes in the, 325
- Sanderson (J. Burdon, M.D., F.R.S.), his Experiments on Archebiosis, 141, 161, 181, 199, 213, 232, 275, 478, 485, 504, 548 ; Electricity of *Dionaea muscipula* (Br. A.), 478 ; Address on Physiology, 304
- Sand-storms and Cyclones, 405
- Sanitary Progress, Prof. Corfield, M.D., on, 517
- Sanitary Science, "The Sanitarian" (New York), 14
- Sars (G. O.), Deep-sea Research, Forms of Animal Life, 189
- Scent, Suppression of, 48, 78
- Schafarick (Prof.), Constitution of Silicates (Br. A.), 475
- Schlesinger (Dr. Robert), Microscopic Examination of Textile Fabrics, 252
- "Scholar's Arithmetic," by L. Hensley, M.A., 280
- Schuster (Dr. Arthur), Spectrum of Nitrogen, 161 ; Effect of Pressure and Temperature on Spectra of Gases (Br. A.), 496
- Schweinfurth (Dr. G.), Vocabularies of Central Africa, 17 ; Monbutta Tribes of Central Africa, 374
- Science and Art Department, South Kensington, Instruction to Science Teachers, 93, 210, 333, 371 ; Queen's Medallists, 390 ; Examination in Biology, 550
- Scientific Instruction, Royal Commission on, 197, 317, 414
- Scientific Research, Prof. C. A. Joy on, 13
- "Scientific Research, National Importance of," by G. Gore, F.R.S., 354
- Scientific Societies, List of, 521, 523
- SCIENTIFIC WORTHIES (*With Portraits*), I. Faraday, 397
- Slater (P. L., F.R.S.), The Huemul, 302 ; New Bird of Paradise, 305 ; New Marine Animal, 487
- Scotland : Society of Antiquaries, 54 ; Highland and Agricultural Society, 210
- Sea-fish, Distribution of, 192
- Seals, Are they Fish or not? 55
- Seal and Otter, Anatomy of the, by Dr. J. C. G. Lucae, 222
- Secchi (P. A.), his Method of Spectroscopic Observation, 162 ; and the Royal College of Anatomy, 558

- Sedgwick Memorial, 171
 Seedling Plants, Growth or Evolution of Structure in, 373
 Settle Cave, W. Boyd Dawkins, on (Br. A.), 476, 540
 Shairp (Principal J. C.), Forbes and Tyndall, 84
 Shooting Stars observed at Bristol, 385
 Sidereal Dial, designed by Capt. Ashton Mayne, 366
 Siemens (Dr., F.R.S.), Fuel (Br. A.), 441
 Signal Office, Washington, 35, 112, 124
 Silbury Hill bought by Sir J. Lubbock, Bart., 191
 Silicates, Constitution of (Br. A.), 475
 Simple Diffraction Experiment, 550
 Smet (Rev. P. J. de), Obituary Notice of, 355
 Smith (Archibald), Obituary Notice of, 183
 Smith (A. Percy), Instinct of Dogs, 6
 Smith (E., M.D., F.R.S.), "Foods," 301
 Smith (F. J.), Mechanical Combination of Colours, 262
 Smith (Geo.), Assyrian Expedition, 75, 271, 333, 436
 Smith (Hermann), Approach caused by Velocity and Resulting in Vibration, 26; Échos respecting Organ-pipes, 45; Harmonic Causation and Harmonic Echoes, 383
 Smith (J. H., M.A.), "Treatise on Arithmetic," 159
 Smith (W. G.), Phosphorescence in Wood, 46
 Smith (W. R.), The Hegelian Calculus, 26
 Smithsonian Institution, 389
 Snakes, Canarese, 303
 Sneezing, Physiology of the Phenomenon, 76
 School of Mines, 210
 Social Science Congress, Norwich, 472
 Societies, Scientific List of, 521; Publication of Transactions, 550
 Society of Arts, 110, 112, 371, 492; Memorial to Premier on National Museums, 543
 "Sociology, Principles of," by Herbert Spencer, 93
 "Sociology, Descriptive," by Herbert Spencer, 544
 Somersetshire Archaeological and Natural History Society, 333, 354
 Sorby (H. C.), Chlorophyll Colouring-Matters, 202, 224
 South African Museum, 352
 South Kensington Museum, Cookery at, 178; H. Cole, C.B., on, 534
 Space of Four Dimensions, 8
 Spalding (Douglas A.), Flight of Birds not acquired, 289
 Spectra of Gases, Effect of Pressure and Temperature on (Br. A.), 496
 Spectra of the Limb and Centre of the Sun, 77
 Spectroscope, The, and its Applications, by J. Norman Lockyer, F.R.S., 10, 87, 104
 Spectroscope, Improved, 172
 "Spectrum Analysis, Researches in," by J. N. Lockyer, F.R.S., 153, 156
 Spectrum Lines of Iron, Calcium, and Titanium, 46
 Spectrum of Nitrogen, 161
 Spencer (Herbert), "Principles of Sociology," 93; "Descriptive Sociology," 544
 Sphygmograph, and the Pulse, 330, 464, 486
 Spicer (Rev. W. W.), Etymology of Aphis, 103
 "Spiders, European, Synonyms of," by T. Thorell, Ph.D., 378
 Spiller (J., F.C.S.), Artificial Magnetite (Br. A.), 475
 Sponge, New, dredged by the *Challenger*, 29
 Spörer (Prof. D.), Observations on the Sun, 391
 Sprengel (C. K.), Fertilisation of Flowers, 49
 Standards of Weight and Measure, 268, 307, 327, 367, 386, 489, 552
 Stanhope (Earl), Proposed Order of Intellectual Merit, 177
 Star-Fishes, 104, 107
 Stars, Southern, Catalogue of, 94
 State Aid to Science, 21, 41, 54, 157, 177, 197, 217, 237, 257, 261, 262, 297, 317, 337, 354, 377, 414, 543
 Statistical Congress, International, 54
 Sternbergia, Modern, Pith of the Balsam-Fir, 53
 Steven-on (Thos.), Meteorological Influence of Trap Rocks, 181
 Stewart (Prof. B.), Heating of a Disc by Rotation in vacuo, 173; Sun-spots, 234; Ethereal Friction (Br. A.), 494
 Stewart (Dr. J. L.), Death of, 514
 Stirling (J. H.), The Hegelian Calculus, 26; "Philosophy of Law," 241; Hegel's Philosophy, 382
 Stone (Livingstone), Fish Acclimatisation in California, 171
 Stone Implements found at New Jersey, 13
 Stones, Musical, 46
 Storms, Law of, Developed, 124, 147, 164
 Struthers (Prof.), Appendix *Vermiformis*, 509; Diverticulum of Small Intestine, 541
 Strezelecki (Count de), Death of, 493
 Sub-Wealden Exploration (Br. A.), 497
 Sullivan (W. S.), Obituary Notice of, 391; his Library and Collections, 404
 Summers and Winters, 182
 Sun: Comparison of Spectra of its Limb and Centre, 77; Coronal Atmosphere of the, 127, 149; Prof. G. A. Young on the, 393
 Sun-spots and Rainfall, Periodicity of, 194, 245, 495, 547
 Sunday Lecture Society, 58
 Sundevall (Prof. C. J.), Classification of Birds, 131
 Suppression of Scent in Pheasants, 48; in Rabbits, 78
 Survival of the Fittest, Prof. L. Agassiz on, 34, 283
 Swallows, Young, Flight of, 289
 Switzerland, Helvetic Society of Natural Sciences, 561
 Tait (Prof. P. G.), Rede Lecture on Thermo-electricity, 86, 122; Heating of a Disc by Rotation in vacuo, 173; Tyndall and Forbes, 381, 399, 431
 Tarry (M.), Cyclones and Sand-storms, 405
 Tasmania: Royal Society, 172; Geological Map of, 352
 Taunton College School, Science at, 171
 Taylor (J. E.), "Half hours in the Green Lanes," 361
 Taylor (Mrs. R. B.), "The A B C of Chemistry," 260
 Technical Education, Meeting at Marlborough House, Deputation to Privy Council, 293, 314, 513
 Tegetmeier, Suppression of Scent in Pheasants, 48
 Telegraphic Communications (Transatlantic) of Astronomical Discoveries, 389
 Telescope for Washington Observatory, 253
 Telescope Tube for Celestial Photography, 284
 Telescope: Webb's "Celestial Objects for Common Telescopes," 199
 Tempel's Comet, 153
 Temperature and Pressure, 200
 Temperature of the Deep-sea, 29, 52, 266, 347, 403, 529; Improved Thermometers, 195
 Thermo-electricity, Rede Lecture at Cambridge, by Prof. P. G. Tait, 86, 122
 Thermometers, Discussion on, 19; Miller-Casella, broken in Deep-sea Soundings, 109; Deep-sea, 529
 Thome (Dr. O. W.), "Lehrbuch der Zoologie," 198
 Thomson (James, C.E., LL.D.), Professor of Engineering at Glasgow, his scientific Career, 49
 Thomson (Prof. Wyville, F.R.S.), Notes from the *Challenger*, 28, 51, 109, 246, 266, 347, 400; *Ventriculidae*, 484
 Thorell (T., Ph.D.), "European Spiders," 378
 "Thysanura, Monograph of the," by Sir J. Lubbock, Bart., M.P., 482
 Tiddeman (R. H.), Settle Caves Report, 529
 Timbs' "Year Book of Facts," 44
 Tissandier (M. G.), Aérial Spectres seen from a Balloon, 227
 Topley (W., F.G.S.), Whin Sill of Northumberland (Br. A.), 476; Sub-Wealden Exploration (Br. A.), 497
 Tornadoes, 126
 Toulmin Smith (Lucy), Dr. Wyville Thomson and the *Ventriculidae*, 484
 "Trades Guild of Learning," 151, 171, 293, 494
 Transit of Venus (*See Venus*)
 Trap Rocks, their Meteorological Influence, 181
 Triangulation of Europe, 192
 Turin Industrial Museum, 152
 Turkish Scientific Periodical, 13
 Tuscan Memorial to Galileo, 329
 Tylor (E. B., F.R.S.), Clodd's "Childhood of the World," 99; Morality and Religion in Early Civilisation, 498; Spencer's "Descriptive Sociology," 562
 Tyndall (Prof. J., F.R.S.), Principal Forbes and Glacial Theories, 64, 84, 381, 399, 431; Swedish Order conferred on, 292; Reflected Rainbows, 361, 423
 Typhoid Epidemic in London, 343, 406, 514
 Ule (Dr. Otto and A. Hummel), "Physikalische und Chemische Unterhaltungen," 44
 Universities, English, their Future; a Voice from Cambridge, an Echo from Oxford, 71
 Universities and Science, Prof. C. A. Joy on, 13
 Universities, English and Foreign, Science at, 21

- Universities and Science, 41, 157, 197, 237, 243, 257, 261, 262
297, 354, 377, 414, 433; Report of the Science Commission,
317, 337
Uranus, Prof. Newcomb's Tables of its Motions, 54
- Valentin (W. G., F.C.S.), "Qualitative Chemical Analysis," 199
Variation of Colour in Fish, 101, 46
Variations of Organs, 505
Velocity and Vibration, 25
Velocity of Light, A. Cornu's Experiments, 184
Venom and Poison, 7, 44, 101
Venomous Caterpillars, 7, 44, 101, 303, 466, 487
Venomous Reptiles of South America, 214
Ventriculidae, 484
Venus, Transit of, Observations of Jeremiah Horrox, 117, 137
Venus, Transit of, 1874, Recommendations of Board of Visitors,
Greenwich Observatory, 129; German Observations, 271;
Russian Expeditions, 35, 271
Verreaux (J. P.), Obituary Notice of, 535, 537
Vesuvius : Palmieri's "Incendio Vesuviano," 362; Mallet-Pal-
mieri's, D. Forbes, F.R.S., on, 528, 549
Vézère, Prehistoric Remains, 58
Victoria Cave Exploration, W. Boyd Dawkins, F.R.S., on, 19
Victoria : Climate of, 152; Mineral Statistics, 335; Mining
Department of, 352
Victoria Institute, 334
Vienna : proposed Conference on International Coinage, 229;
Exhibition, Expenses of Jurors, 54, 272, 333, 355, 515;
Imperial Academy of Sciences, 335; Meteorological Congress,
468; Student's Home, 152; New Zoological Museum, 75;
Zoological Society, 180
Vine Disease, 557
Violets, Fertilisation of, 50
Volcanic Eruptions; R. Mallett, F.R.S., on, 362, 485, 549
Volcanic Products, Origin of, 66
Volcanoes : in Columbia, 192; in Iceland, 404; in Japan, 112,
196
- Wacherer (Dr. Otto), Obituary Notice of, 535
Wagner (Moritz), "The Darwinian Theory," 180
Walker (C. V., F.R.S.), Carbon Battery Plates, 529
Walker (Henry, F.G.S.), Glacial Drifts of North London, 287
Wallace (Alfred R., F.Z.S.), Natural History Collections in
the East India Museum, 5; Collection of Birds from the
Malay Archipelago, Bought for the British Museum, 54; Per-
ception and Instinct in the Lower Animals, 65, 302; Dr.
Page's "Text-book of Physical Geography," 358; Works on
African Travel, 429; Lyell's "Antiquity of Man," 462
Wallis (Dr.), his Latin Translation of the MSS. of Jeremiah
Horrox, 137
Walsingham (Lord), Oreodon Remains from Upper Oregon,
385
Ward (J. Clifton), Glaciation of the Lake District, 154
Washburn (G.), Antiquity of Man, 392
Washington, Naval Observatory at, 35, 253; Signal Office,
35, 112, 124
Waves and Earthquakes, 547
Wave Lengths, Variations in, 393
Wave Motion, Method of Studying, 506
Wealden Boring, 487, (Br. A.) 497
Webb (Rev. T. W.), "Celestial Objects for Common Tele-
scopes," 199
- Weighing and Standards of Weight, 268, 307, 327, 367, 386, 489,
552
Wellington College Natural History Society, 260
Westerly Progress of Cities, 102, 182
West Kent Natural History Society, 131
Wharton (C. Bygrave), Motion in a Circle, 77
Wheatstone (Sir Charles), Grand Medal of French Society of
National Industry, 74; Elected Associate of the French
Academy Sciences, 209, 251
Whewell (Dr., late Master of Trinity), Proposed Life of, 151
Whin Sill of Northumberland (Br. A.), 476
Whitmeier (S. J.) Earthquakes in the Samoan Islands, 325
Whitworth Scholarships, 335, 395
Wild Birds Protection Act, 1, 209
Willemoes-Suhm (Dr. von), Deep-Sea Dredging on Board the
Challenger, 28, 51
Willett (H.), Sub-Wealden Exploration (Br. A.), 497
Williams (Greville, F.R.S.), Emeralds and Beryls, 254, 284
Williams (Rev. S. E., M.A.), "Arithmetic and Algebra," 159
Williams (W. Mattieu, F.C.S.), Spectrum Lines of Iron Cal-
cium and Titanium, 46; Science in Italy, 113; Intellect of
Porpoises, 163; Mrs. Taylor's "A B C of Chemistry," 260;
Autumnal Typhoid Epidemics, 466
Williamson (Prof. A. W., F.R.S.), Inaugural Address at British
Association, 406
Williamson (Prof. W. C., F.R.S.), Coals and Coal Plants (Br.
A.), 446
Wills (Thos.), New Ozone Generator, 146
Wilson (Henry S.), Venomous Caterpillars, 45
Winchester College, Natural History Society, 282; Scientific
Society, 484
Winters and Summers, 182
Wires used to Correct Echo, 120
Wise (Prof.), his proposed Balloon Voyage from America to
England, 364, 389, 436
Wood (Wallace, M. D.), "Chronos: Mother Earth's Bio-
graphy," 239
Wood, Phosphorescence in, 46, 103
Woodward (C. J.), Wave Motion, 506
"World of Atoms," by Marc Antoine Gaudin, 81
Wyandotte Cave, 229
Wyoming, Geology of, Prof. Cope on, 19, 93, 116, 156, 390
Yale College, Scientific School, 252, 322
"Year-book of Facts," 44
Yellowstone Exploring Expedition, 331
Young (Prof. C. A.), Improved Spectroscope, 172; Crust of
the Sun, 393
- Zittel (Prof. Dr. K. A.), "Aus der Urzeit," 547
Zodiacal Light, Maxwell Hall on, 7, 181
Zoology : Zoological Gardens, Cranes, 383; Additions to, 14,
35, 36, 55, 76, 113, 131, 153, 173, 193, 211, 232, 253, 273,
294, 315, 335, 356, 372, 391, 405, 436, 473, 494, 515, 530,
559; Garden, Calcutta, 34; Garden, Philadelphia, 55; "Zoo-
logical Mythology," by Prof. De Gubernatis, 43; Zoological
Record, 54, 527; Society, Meetings, 18, 58, 95, 135, 195,
231; Society, Vienna, 180; Station at Naples, 34, 81, 454;
Zoologist, The, 335, 395; "Zoology, History of," by Prof. J.
Victor Carus, 118; Thome's "Lehrbuch der Zoologie," 198.
(See British Association, Sec. D.)

